

ABSTRACT

Described are nucleotide sequences coding for and regulating expression of a cell cycle regulatory protein, designated p193, and recombinant vectors and host

5 cells containing nucleotide sequences coding for and regulating expression of the protein sequence. Also described are methods for modifying the cell cycle of a cell by regulating p193 or its pathway. Methods for inducing apoptosis in cells are provided by increasing level of a pro-apoptotic p193 protein in the cells. Methods for suppressing apoptosis in or increasing the proliferative potential of cells are

10 provided by reducing the level of pro-apoptotic p193 protein the cells and/or by interfering with the native p193 signal transduction pathway, for instance utilizing a p193 protein having a dominant negative mutation.